



**Frank & West**  
Environmental Engineers, Inc.

April 30, 2014

Illinois Environmental Protection Agency  
Bureau of Water  
Compliance Assurance Section  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, Illinois 62794-9276

RE: Rancho Cantera, LLC

To Whom It May Concern:

Frank & West is submitting the NPDES annual report on behalf of the Rancho Cantera, LLC facility.

If you have any further questions or comments regarding the Rancho Cantera, LLC facility, please advise.

**FRANK & WEST**  
**ENVIRONMENTAL ENGINEERS, INC.**

Amy Hernandez  
Environmental Compliance Supervisor

cc: EPA-Region 5 Office  
IEPA-Rockford Field Office

(b) (6)

**RECEIVED**

MAY 06 2014

WATER ENFORCEMENT & COMPLIANCE  
VANDERBILT BRANCH, EPA REGION 5

Rancho Cantera  
NPDES Annual Report  
2013

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The following information is being submitted in accordance with *Special Condition 7(a)* of the General NPDES permit for Concentrated Animal Feeding Operations. The information is being provided in the same format as presented in the General Permit.

Item (a) i

The maximum number of animals housed at the facility in 2013 was 1,250 mature dairy cows. The cows were housed in freestall barns.

Item (a) ii

The facility produced an estimated 16,418,739 gallons of livestock waste in 2013.

Item (a) iii

The facility did transfer 9,903,071 gallons of livestock waste offsite to other people in 2013.

Item (a) iv

The facility has 2,600 acres of land available for land application of livestock waste covered by the Nutrient Management Plan in 2013.

Item (a) v

The facility utilized 1,158 acres of land for application of livestock waste in 2013.

Item (a) vi

There were no discharges of livestock waste from the Rancho Cantera facility in 2013.

Item (a) vii

The current version of the facility's Nutrient Management Plan is in the process of being updated to include additional land application acres by Chris West of Frank & West Environmental Engineers. He is a registered Technical Service Provider through the Natural Resources Conservation Service.

Item (a) viii

All field and supporting information is provided as Attachment A.

Report Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false statements and information, including the

(b) (6)



Facility Title:

*Rancho Centera LLC Manager*

Date:

*4-30-14*

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ATTACHMENT

FIELD DATA

**Rancho Cantera, LLC  
Annual Report Field Data**

FSA Field #	Field Name	Acres Available for Application	2013 Crop	2013 Crop Yield	Application Rate Liquid (gal/acre)	Application Rate Solid (Tons/acre)	Plant available nitrogen (pounds applied/acre) (3)	Elemental Phosphorus (pounds applied/acre) (3)	2013 Soil Test Results	2013 Fall Supplemental Nitrogen (pounds/acre)	2013 Supplemental Phosphorus (pounds/acre)	2012 Fall Livestock Waste Application (gallons)	2013 Spring Livestock Waste Application (gallons)	2013 Fall Livestock Waste Application (gallons) (4)
	(b) (6)	69.9	Corn Silage	26.8	0	0.0	0.0	0.0	2		0	0	0	0
	(b) (6)	26.7	Corn Silage	26.8	0	0.0	0.0	0.0	2		0	0	0	0
	3 Rancho	10.3	Corn Silage	26.8	0	0.0	0.0	0.0	2		0	0	0	0
	4 Rancho	4.4	Corn Silage	26.8	0	0.0	0.0	0.0	2		0	0	0	0
	5 Rancho	108.3	Corn Silage	26.8	0	0.0	0.0	0.0	2		0	0	0	0
	6 Rancho	21	Corn Silage	26.8	15,164	0.0	160.4	66.2	2		0	318,454	0	0
(b) (6)		0.2	Corn Silage	26.8	0	0.0	0.0	0.0	2		0	0	0	0
	6b Rancho	1.5	Corn Silage	26.8	0	0.0	0.0	0.0	2		0	0	0	0
(b) (6)		41.6	Corn Silage	26.8	12,665	0.0	134.0	55.3	2		0	526,867	0	0
	8 Rancho	5.6	Corn Silage	26.8	0	0.0	0.0	0.0	2		0	0	0	0
(b) (6)		2.1	Corn Silage	26.8	0	0.0	0.0	0.0	2		0	0	0	0
		3.4	Corn Silage	26.8	0	0.0	0.0	0.0	2		0	0	0	0
		0.2	Corn Silage	26.8	0	0.0	0.0	0.0	2		0	0	0	0
		16.3	Corn Silage	26.8	0	0.0	0.0	0.0	2		0	0	0	0
		2.7	Corn Silage	26.8	0	0.0	0.0	0.0	2		0	0	0	0
		17.9	Corn Silage	26.8	0	0.0	0.0	0.0	2		0	0	0	0
		55.3	Corn	206	11,939	0.0	126.3	52.1	2		0	660,251	0	0
		4.5	Corn	206	18,155	0.0	192.1	79.2	2		0	81,697	0	0
		60.8	Corn	206	16,454	0.0	174.1	71.8	2		0	1,000,380	0	0
		72.7	Corn	206	12,270	0.0	129.8	53.6	2		0	892,005	0	0
		5.2	Corn Silage	26.8	0	0.0	0.0	0.0	2		0	0	0	0
		113.1	Corn Silage	26.8	18,368	0.0	194.3	80.2	2		0	2,077,456	0	0
		0.8	Corn Silage	26.8	0	0.0	0.0	0.0	2		0	0	0	0
		31.8	Corn	206	16,358	0.0	173.1	71.4	2		0	520,198	0	0
		58.2	Corn	206	3,724	0.0	39.4	16.3	2		0	216,749	0	0
		72.3	Corn	206	12,476	0.0	132.0	54.5	2		0	902,009	0	0
		24.4	Corn	209	0	0.0	0.0	0.0	2		0	0	0	0
		82.9	Corn	209	0	0.0	0.0	0.0	2		0	0	0	0
		43.8	Corn	209	0	0.0	0.0	0.0	2		0	0	0	0
		60.4	Corn	209	0	0.0	0.0	0.0	2		0	0	0	0
		23.8	Corn	209	0	0.0	0.0	0.0	2		0	0	0	0
		15.6	Corn	209	0	0.0	0.0	0.0	2		0	0	0	0
		83.3	Corn	209	0	0.0	0.0	0.0	2		0	0	0	0
		87.9	Corn	209	0	0.0	0.0	0.0	2		0	0	0	1,706,842
		179.2	Soybeans	52.8	0	0.0	0.0	0.0	2		0	0	0	3,479,706
		109.9	Corn	209	0	0.0	0.0	0.0	2		0	0	0	0
		45.5	Corn	188	0	0.0	0.0	0.0	2		0	0	0	0
		51.7	Corn	188	0	0.0	0.0	0.0	2		0	0	0	0
		142.5	Corn	196	0	0.0	0.0	0.0	2		0	0	0	0
		154.2	Corn	192	0	0.0	0.0	0.0	2		0	0	0	2,994,256
		54.3	Corn	200	0	0.0	0.0	0.0	2		0	0	0	0
		148.8	Corn	204	0	0.0	0.0	0.0	2		0	0	0	0
		107.5	Corn	198	0	0.0	0.0	0.0	2		0	0	0	0
		66.6	Corn Silage	26.8	0	0.0	0.0	0.0	2		0	0	0	0
		107	Corn	192	0	0.0	0.0	0.0	2		0	0	0	2,077,726
		98.5	Corn	201	0	0.0	0.0	0.0	2		0	0	0	1,912,673
		104.8	Corn Silage	26.8	0	0.0	0.0	0.0	2		0	0	0	0

**Livestock Waste Analysis - (lbs per 1000 Gal or lbs per Ton)(1)**

	TKN		1st year Available N	P (as P2O5)	K (as K2O)
Liquid	21.2		10.6	9.9	10.5
Solid	0.0		0.0	0.0	0.0

(1) Nitrogen & Phosphorus numbers are from 2013 slurry analysis

(2) No soil tests were conducted in 2013

(3) Application Rates were calculated using 2013 numbers

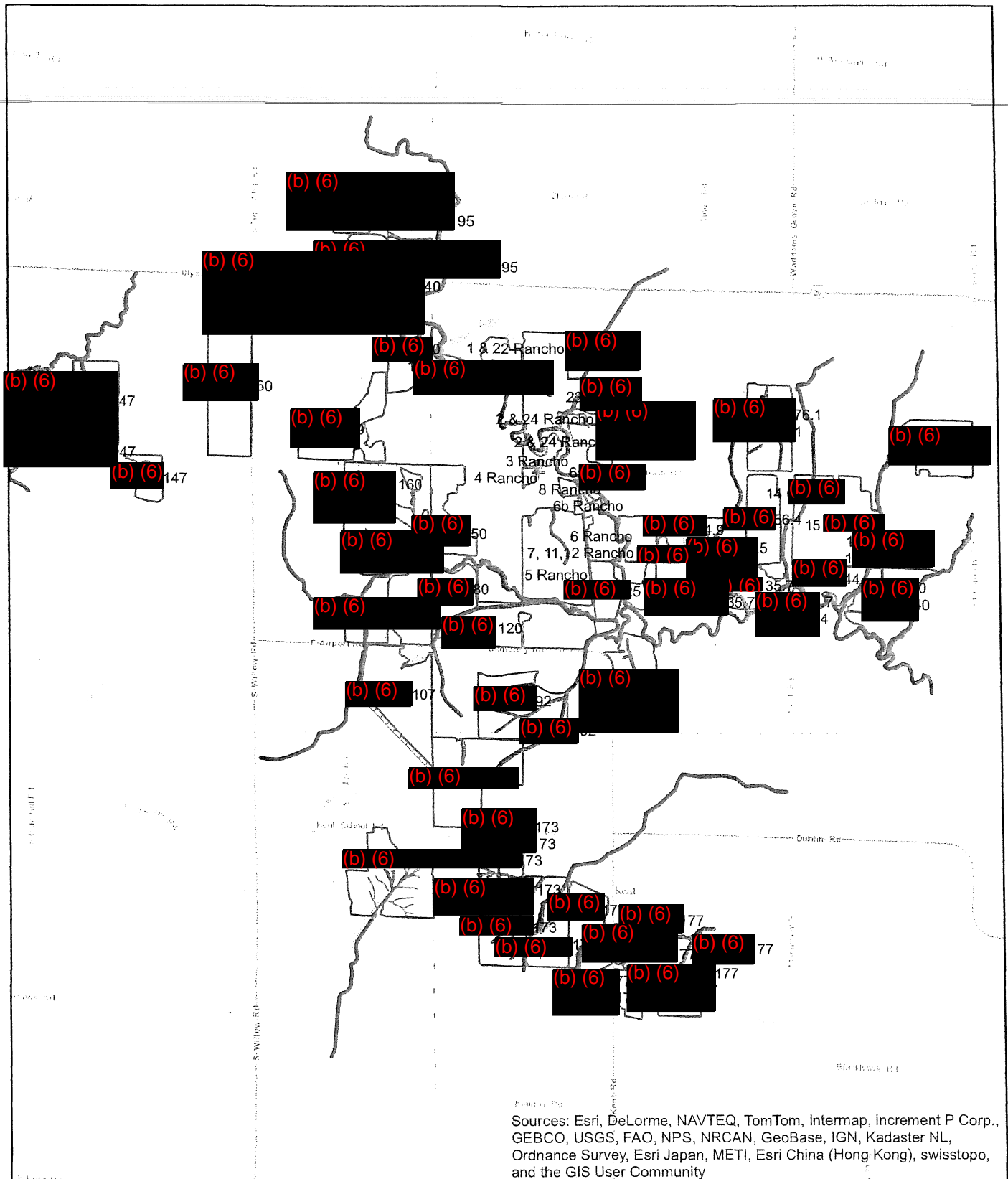
(4) 2013 Fall applications for 2014 Crop not included in application rate for 2013 crops. Will be reflected on 2014 report







## Topo Map



### Legend



Facility Location — Water



## Fields




## Water Way

4,200

Feet



Frank & West



Environmental Engineers, Inc.  
7826 N. State Route 29 Phone: 217/427-7686